

Resource Summary Report

Generated by [RRID](#) on Jul 29, 2026

B6;129-Tgfb^{tm1Karl}/J

RRID:IMSR_JAX:012603

Type: Organism

Proper Citation

RRID:IMSR_JAX:012603

Organism Information

URL: <https://www.jax.org/strain/012603>

Proper Citation: RRID:IMSR_JAX:012603

Description: Mus musculus with name B6;129-Tgfb^{tm1Karl}/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: transforming growth factor; beta receptor II; mutant stock: Tgfb^{tm1Karl}

Affected Gene: transforming growth factor; beta receptor II

Genomic Alteration: targeted mutation 1; Stefan Karlsson

Catalog Number: JAX:012603

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6;129-Tgfb^{tm1Karl}/J

Record Creation Time: 20250513T053721+0000

Record Last Update: 20260725T044430+0000

Ratings and Alerts

No rating or validation information has been found for B6;129-Tgfb^{tm1Karl}/J.

No alerts have been found for B6;129-Tgfb^{tm1Karl}/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 21 mentions in open access literature.

Listed below are recent publications. The full list is available at [RRID](#) .

Chan H, et al. (2025) Psychological stress increases skin infection through the action of TGF β to suppress immune-acting fibroblasts. *Science immunology*, 10(106), eads0519.

van der Heide V, et al. (2025) Prolonged but finite antigen presentation promotes reversible defects of "helpless" memory CD8 $^{+}$ T cells. *Immunity*, 58(7), 1742.

Chen CY, et al. (2025) The distinct roles of TGF- β signaling in retinal development. *iScience*, 28(11), 113737.

Kolter J, et al. (2025) Sensory neurons shape local macrophage identity via TGF- β signaling. *Immunity*.

Yang D, et al. (2024) Loss of p53 and SMAD4 induces adenosquamous subtype pancreatic cancer in the absence of an oncogenic KRAS mutation. *Cell reports. Medicine*, 5(9), 101711.

Torcellan T, et al. (2024) Circulating NK cells establish tissue residency upon acute infection of skin and mediate accelerated effector responses to secondary infection. *Immunity*, 57(1), 124.

Wang L, et al. (2024) T-bet deficiency and Hic1 induction override TGF- β -dependency in the formation of CD103 $^{+}$ intestine-resident memory CD8 $^{+}$ T cells. *Cell reports*, 43(6), 114258.

Adem B, et al. (2024) Exosomes define a local and systemic communication network in healthy pancreas and pancreatic ductal adenocarcinoma. *Nature communications*, 15(1), 1496.

Ewing-Crystal NA, et al. (2024) Dynamic fibroblast-immune interactions shape wound healing after brain injury. *bioRxiv : the preprint server for biology*.

Wolf SD, et al. (2023) Hepatocytes reprogram liver macrophages involving control of TGF- β activation, influencing liver regeneration and injury. *Hepatology communications*, 7(8).

Bastos N, et al. (2023) SMC3 epigenetic silencing regulates Rab27a expression and drives pancreatic cancer progression. *Journal of translational medicine*, 21(1), 578.

Fuchs MAA, et al. (2023) Localization and characterization of proenkephalin-A as a potential biomarker for kidney disease in murine and human kidneys. *Biomarkers* :

biochemical indicators of exposure, response, and susceptibility to chemicals, 28(1), 76.

Chen L, et al. (2023) TGF β 1 induces fetal reprogramming and enhances intestinal regeneration. *Cell stem cell*, 30(11), 1520.

Gao F, et al. (2022) Hedgehog-responsive PDGFR α (+) fibroblasts maintain a unique pool of alveolar epithelial progenitor cells during alveologenesis. *Cell reports*, 39(1), 110608.

Smith CJ, et al. (2021) Inhibitory Molecules PD-1, CD73 and CD39 Are Expressed by CD8⁺ T Cells in a Tissue-Dependent Manner and Can Inhibit T Cell Responses to Stimulation. *Frontiers in immunology*, 12, 704862.

Kiyokawa H, et al. (2021) Airway basal stem cells reutilize the embryonic proliferation regulator, Tgf β -Id2 axis, for tissue regeneration. *Developmental cell*, 56(13), 1917.

Arnold IC, et al. (2020) The GM-CSF-IRF5 signaling axis in eosinophils promotes antitumor immunity through activation of type 1 T cell responses. *The Journal of experimental medicine*, 217(12).

Utz SG, et al. (2020) Early Fate Defines Microglia and Non-parenchymal Brain Macrophage Development. *Cell*, 181(3), 557.

Le BV, et al. (2020) TGF β R-SMAD3 Signaling Induces Resistance to PARP Inhibitors in the Bone Marrow Microenvironment. *Cell reports*, 33(1), 108221.

Clements MP, et al. (2017) The Wound Microenvironment Reprograms Schwann Cells to Invasive Mesenchymal-like Cells to Drive Peripheral Nerve Regeneration. *Neuron*, 96(1), 98.